

Sharon M Crook

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,251
citations

623734

14
h-index

434195

31
g-index

60
all docs

60
docs citations

60
times ranked

1357
citing authors

#	ARTICLE	IF	CITATIONS
1	International data governance for neuroscience. <i>Neuron</i> , 2022, 110, 600-612.	8.1	28
2	A stage-structured population model for activity-dependent dendritic spines. <i>Journal of Biological Dynamics</i> , 2021, 15, S62-S80.	1.7	1
3	Modeling the synergistic properties of drugs in hormonal treatment for prostate cancer. <i>Journal of Theoretical Biology</i> , 2021, 514, 110570.	1.7	6
4	A multiscale continuum model of the vertebrate outer retina: The temporal dynamics of background-induced flicker enhancement. <i>Journal of Theoretical Biology</i> , 2021, 525, 110763.	1.7	1
5	Editorial: Reproducibility and Rigour in Computational Neuroscience. <i>Frontiers in Neuroinformatics</i> , 2020, 14, 23.	2.5	8
6	Review: Mathematical Modeling of Prostate Cancer and Clinical Application. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2721.	2.5	26
7	Using formative assessment for improving pedagogy. <i>ACM Inroads</i> , 2020, 11, 27-34.	0.6	2
8	Open Source Brain: A Collaborative Resource for Visualizing, Analyzing, Simulating, and Developing Standardized Models of Neurons and Circuits. <i>Neuron</i> , 2019, 103, 395-411.e5.	8.1	56
9	Harmonizing semantic annotations for computational models in biology. <i>Briefings in Bioinformatics</i> , 2019, 20, 540-550.	6.5	52
10	Resources for Modeling in Computational Neuroscience. <i>Springer Series in Computational Neuroscience</i> , 2018, , 807-830.	0.3	1
11	Towards systematic, data-driven validation of a collaborative, multi-scale model of <i>Caenorhabditis elegans</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170381.	4.0	7
12	SwarmSight: Measuring the temporal progression of animal group activity levels from natural-scene and laboratory videos. <i>Behavior Research Methods</i> , 2017, 49, 576-587.	4.0	9
13	SNaReSim: Synthetic Nanopore Read Simulator. , 2017, , .		6
14	SwarmSight: Real-time Tracking of Insect Antenna Movements and Proboscis Extension Reflex Using a Common Preparation and Conventional Hardware. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	2
15	Neuronal network models for sensory discrimination. , 2016, 2016, 1066-1073.		0
16	25th Annual Computational Neuroscience Meeting: CNS-2016. <i>BMC Neuroscience</i> , 2016, 17, 54.	1.9	81
17	Modeling the Influence of Ion Channels on Neuron Dynamics in <i>Drosophila</i> . <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 139.	2.1	16
18	Ontology-assisted keyword search for NeuroML models. , 2015, , .		7

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19	Drift-diffusion simulation of the ephaptic effect in the triad synapse of the retina. <i>Journal of Computational Neuroscience</i> , 2015, 38, 129-142.	1.0	20
20	An Animated Introduction to Relational Databases for Many Majors. <i>IEEE Transactions on Education</i> , 2015, 58, 81-89.	2.4	11
21	libNeuroML and PyLEMS: using Python to combine procedural and declarative modeling approaches in computational neuroscience. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 38.	2.5	35
22	LEMS: a language for expressing complex biological models in concise and hierarchical form and its use in underpinning NeuroML 2. <i>Frontiers in Neuroinformatics</i> , 2014, 8, 79.	2.5	109
23	Model exchange with the NeuroML model database. <i>BMC Neuroscience</i> , 2014, 15, .	1.9	4
24	Fixational Eye Movement Correction of Blink-Induced Gaze Position Errors. <i>PLoS ONE</i> , 2014, 9, e110889.	2.5	41
25	Relating ion channel expression, bifurcation structure, and diverse firing patterns in a model of an identified motor neuron. <i>Journal of Computational Neuroscience</i> , 2013, 34, 211-229.	1.0	22
26	A continuum approach to model neurites/dendrites with emerging subtrees. <i>BMC Neuroscience</i> , 2013, 14, .	1.9	0
27	Learning from the Past: Approaches for Reproducibility in Computational Neuroscience. , 2013, , 73-102.		34
28	Microsaccadic Efficacy and Contribution to Foveal and Peripheral Vision. <i>Journal of Neuroscience</i> , 2012, 32, 9194-9204.	3.6	120
29	Creating, documenting and sharing network models. <i>Network: Computation in Neural Systems</i> , 2012, 23, 131-149.	3.6	14
30	The Open Source Brain Initiative: enabling collaborative modelling in computational neuroscience. <i>BMC Neuroscience</i> , 2012, 13, .	1.9	18
31	A declarative model specification system allowing NeuroML to be extended with user-defined component types. <i>BMC Neuroscience</i> , 2012, 13, .	1.9	1
32	Motoneuron model of self-sustained firing after spinal cord injury. <i>Journal of Computational Neuroscience</i> , 2011, 31, 625-645.	1.0	15
33	Differential contribution of A-type potassium currents in shaping neuronal responses to synaptic input. <i>BMC Neuroscience</i> , 2011, 12, .	1.9	0
34	Development of NeuroML version 2.0: greater extensibility, support for abstract neuronal models and interaction with Systems Biology languages. <i>BMC Neuroscience</i> , 2011, 12, .	1.9	3
35	Modulation of inhibitory strength and kinetics facilitates regulation of persistent inward currents and motoneuron excitability following spinal cord injury. <i>Journal of Neurophysiology</i> , 2011, 106, 2167-2179.	1.8	25
36	Differential contribution of voltage-dependent potassium currents to neuronal excitability. <i>BMC Neuroscience</i> , 2010, 11, .	1.9	2

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37	NeuroML: A Language for Describing Data Driven Models of Neurons and Networks with a High Degree of Biological Detail. <i>PLoS Computational Biology</i> , 2010, 6, e1000815.	3.2	294
38	Describing and exchanging models of neurons and neuronal networks with NeuroML. <i>BMC Neuroscience</i> , 2009, 10, .	1.9	3
39	Predicting changes in neuronal excitability type in response to genetic manipulations of K ⁺ -channels. <i>BMC Neuroscience</i> , 2009, 10, .	1.9	1
40	Role of inhibition in the suppression of \hat{I}_{\pm} -motoneuron hyper-excitability following chronic spinal cord injury. <i>BMC Neuroscience</i> , 2009, 10, P343.	1.9	2
41	Passive current transfer in wildtype and genetically modified <i>Drosophila</i> motoneuron dendrites. <i>BMC Neuroscience</i> , 2009, 10, .	1.9	1
42	Modeling structural plasticity in dendrites with multiple spine types. <i>BMC Neuroscience</i> , 2008, 9, P104.	1.9	0
43	Modeling the GABA and ephaptic feedback mechanisms in cat outer retina. <i>BMC Neuroscience</i> , 2008, 9, .	1.9	0
44	Computational Intelligence in Electrophysiology: Trends and Open Problems. <i>Studies in Computational Intelligence</i> , 2008, , 325-359.	0.9	2
45	Using NeuroML and neuroConstruct to build neuronal network models for multiple simulators. <i>BMC Neuroscience</i> , 2007, 8, .	1.9	1
46	Two-compartment models of spasticity in spinal motor neurons following spinal cord injury. <i>BMC Neuroscience</i> , 2007, 8, .	1.9	0
47	A model of activity-dependent changes in dendritic spine density and spine structure. <i>BMC Neuroscience</i> , 2007, 8, .	1.9	1
48	MorphML: Level 1 of the NeuroML Standards for Neuronal Morphology Data and Model Specification. <i>Neuroinformatics</i> , 2007, 5, 96-104.	2.8	73
49	XML for Data Representation and Model Specification in Neuroscience. <i>Methods in Molecular Biology</i> , 2007, 401, 53-66.	0.9	6
50	Tools for neuroinformatic data exchange: an XML application for neuronal morphology data. <i>Neurocomputing</i> , 2004, 58-60, 1091-1095.	5.9	9
51	Modeling ion channels from the cricket cercal sensory system. <i>Neurocomputing</i> , 2004, 58-60, 409-415.	5.9	0
52	Modeling frequency encoding in the cricket cercal sensory system. <i>Neurocomputing</i> , 2002, 44-46, 769-773.	5.9	2
53	Dendritic and synaptic effects in systems of coupled cortical oscillators. <i>Journal of Computational Neuroscience</i> , 1998, 5, 315-329.	1.0	44
54	Combining hypothesis- and data-driven neuroscience modeling in FAIR workflows. <i>ELife</i> , 0, 11, .	6.0	15